RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/516,406_

Source: _PCT_

Date Processed by STIC: _2-1-06_

ENTERED

PCT

RAW SEQUENCE LISTING   DATE: 02/01/2006
PATENT APPLICATION: **US/10/516,406**   TIME: 14:40:57

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

3 <110> APPLICANT: Centre for Addiction and Mental Health
5 <120> TITLE OF INVENTION: Detection of Epigenetic Abnormalities and Diagnostic Method
Based Thereon
7 <130> FILE REFERENCE: 04340-PCT-PA(0148.0041)
9 <140> CURRENT APPLICATION NUMBER: 10/516,406
10 <141> CURRENT FILING DATE: 2004-12-01
12 <150> PRIOR APPLICATION NUMBER: PCT/CA03/00820
13 <151> PRIOR FILING DATE: 2003-06-06
15 <150> PRIOR APPLICATION NUMBER: 60/386,818
16 <151> PRIOR FILING DATE: 2002-06-06
18 <160> NUMBER OF SEQ ID NOS: 263
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 148
24 <212> TYPE: DNA
25 <213> ORGANISM: Homo sapiens
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <223> OTHER INFORMATION: consensus sequence of a subfamily of Alu repeats having
accession
30   number U14570
33 <400> SEQUENCE: 1
34 ggccgggcgc ggtggctcac gcctgtaatc ccagcacttt gggaggccga ggcgggtgga   60
36 tcatgaggtc aggagatcga gaccatcctg gctaacaagg tgaaacccg tctctactaa   120
38 aaatacaaaa aattagccgg gcgcggtg   148
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 20
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial
46 <220> FEATURE:
47 <223> OTHER INFORMATION: primer 'Alu For' (see Example 1)
49 <400> SEQUENCE: 2
50 gcctgtactc ccagcagttt   20
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 20
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial
58 <220> FEATURE:
60 <223> OTHER INFORMATION: primer 'Alu Rev' (see Example 1)
62 <400> SEQUENCE: 3
63 ggagggtgtt tgcacaatct   20
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 24
68 <212> TYPE: DNA

69 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING   DATE: 02/01/2006
PATENT APPLICATION: US/10/516,406   TIME: 14:40:57

         Input Set : **A:\pto.kd.txt**
         Output Set: **N:\CRF4\02012006\J516406.raw**

```
71 <220> FEATURE:
72 <223> OTHER INFORMATION: primer '1MF' (see Example 2)
74 <400> SEQUENCE: 4
75 cagcgtacac atacacagaa gaga                                        24
78 <210> SEQ ID NO: 5
79 <211> LENGTH: 23
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial
83 <220> FEATURE:
84 <223> OTHER INFORMATION: primer '1MR' (see Example 2)
86 <400> SEQUENCE: 5
87 ttcctagtca ccaagtcata gca                                        23
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 109
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
96 <221> NAME/KEY: misc_feature
97 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E52m/Sch74-E51m (see Figure 4)
100 <400> SEQUENCE: 6
101 cagctcactg caacctccgc ctcctggatt caagcgattt tcccgcctta gcctcctgag     60
103 taactgggac tagaggcagg taccaccacg cccagctaat ttttgtatt              109
106 <210> SEQ ID NO: 7
107 <211> LENGTH: 109
108 <212> TYPE: DNA
109 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E78m/BD43-E83m (see Figure 4)
116 <400> SEQUENCE: 7
117 cggctcaatg caacctcagc ctcctgggtt caagcaattc tcctgtctca gcctcccgag     60
119 tagctgggat tacaggcaca tgccaccatg cccaactaat ttttgtatt              109
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 109
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapiens
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E78m (see Figure 4)
132 <400> SEQUENCE: 8
133 cggctcaatg caacctcagc ctcctgggtt caagcaattc tcctgtctca gcctcccgag     60
135 tagctgggat tacaggcaca tgccaccatg cccaactaat ttttgtatt              109
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 109
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <220> FEATURE:
144 <221> NAME/KEY: misc_feature
145 <223> OTHER INFORMATION: Alu sequence cloned from BD34-D19M (see Figure 4)
```

RAW SEQUENCE LISTING   DATE: 02/01/2006
PATENT APPLICATION: US/10/516,406   TIME: 14:40:57

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

```
148 <400> SEQUENCE: 9
149 tggctcactg taacctctgc ctcctgggtt caagtaattc tcctgtctca gcctcctgag      60
151 tagctaggat tactggtgcc cgccaccatg cccggcaaat ttttgtatt               109
154 <210> SEQ ID NO: 10
155 <211> LENGTH: 109
156 <212> TYPE: DNA
157 <213> ORGANISM: Homo sapiens
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <223> OTHER INFORMATION: Alu sequence cloned from BD34-E62m_ (see Figure 4)
164 <400> SEQUENCE: 10
165 tggctcactg taacctctgc ctcctgggtt caagtaattc tcctgtctca gcctcctgag      60
167 tagctaggat tactggtgcc cgccaccatg cccggcaaat ttttgtatt               109
170 <210> SEQ ID NO: 11
171 <211> LENGTH: 109
172 <212> TYPE: DNA
173 <213> ORGANISM: Homo sapiens
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <223> OTHER INFORMATION: Alu sequence cloned from BD43-15m (see Figure 4)
180 <400> SEQUENCE: 11
181 tggctcactg caacctctac ctcctgagtt caagctcttc tcctgcctca acctccagag      60
183 taattgtgat tacaggtgcc tcccaccaca ccaggctaat ttttgtatt               109
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 109
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E5m (see Figure 4)
196 <400> SEQUENCE: 12
197 cagctcactg caacctccat ttcctgggtt caagcgattc tcctgcctca gcctccggag      60
199 tagctgggac cacagacgtg tgccaccatg cctgggtaat tttcatatt               109
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 110
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo sapiens
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <223> OTHER INFORMATION: Alu sequence cloned from BD43-RevE7m (see Figure 4)
212 <400> SEQUENCE: 13
213 cagctcactg caaccaccac ctcccaggtt caagtgatta tcctgcctca gcctcccgag      60
215 tagctgggat tacagatgcc caccaacaca ccaggctaat tttttgtatt              110
218 <210> SEQ ID NO: 14
219 <211> LENGTH: 110
220 <212> TYPE: DNA
221 <213> ORGANISM: Homo sapiens
223 <220> FEATURE:
224 <221> NAME/KEY: misc_feature
```

RAW SEQUENCE LISTING   DATE: 02/01/2006
PATENT APPLICATION: US/10/516,406   TIME: 14:40:57

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

```
225 <223> OTHER INFORMATION: Alu sequence cloned from BD43-RevE77m (see Figure 4)
228 <400> SEQUENCE: 14
229 cagctcactg caaccaccac ctcccaggtt caagtgatta tcctgcctca gcctcccgag     60
231 tagctgggat tacagatgcc caccaacaca ccaggctaat tttttgtatt              110
234 <210> SEQ ID NO: 15
235 <211> LENGTH: 110
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
239 <220> FEATURE:
240 <221> NAME/KEY: misc_feature
241 <223> OTHER INFORMATION: Alu sequence cloned from BD34-A14M (see Figure 4)
244 <400> SEQUENCE: 15
245 cagcccagtg caagctccgc ctcccaggtt cacgtcattc tcctgcctca gcctcccgag     60
247 tagctgggac tacaggcgcc cgccaccacg cccagctaat tttttgtatt              110
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 110
252 <212> TYPE: DNA
253 <213> ORGANISM: Homo sapiens
255 <220> FEATURE:
256 <221> NAME/KEY: misc_feature
257 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E3m (see Figure 4)
260 <400> SEQUENCE: 16
261 cggctcactg caagctccgc ctcccgggtg cacgccattc tcctgcctca gcctcccgag     60
263 tagctgggac tacaggcgcc cgccaccacg cccggctaat tttttgtatt              110
266 <210> SEQ ID NO: 17
267 <211> LENGTH: 110
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E318m (see Figure 4)
276 <400> SEQUENCE: 17
277 tggctcactg caacctccgc ctcccaggtt caagcaattc tcctgcctca gtctcccgag     60
279 tagctgggac taccggcgag tgctaccatg cctgcgtaat tttttgtact              110
282 <210> SEQ ID NO: 18
283 <211> LENGTH: 110
284 <212> TYPE: DNA
285 <213> ORGANISM: Homo sapiens
287 <220> FEATURE:
288 <221> NAME/KEY: misc_feature
289 <223> OTHER INFORMATION: Alu sequence cloned from Sch74-E318_m (see Figure 4)
292 <400> SEQUENCE: 18
293 tggctcactg caacctccgc ctcccaggtt caagcaattc tcctgcctca gtctcccgag     60
295 tagctgggac taccggcgag tgctaccatg cctgcgtaat tttttgtact              110
298 <210> SEQ ID NO: 19
299 <211> LENGTH: 110
300 <212> TYPE: DNA
301 <213> ORGANISM: Homo sapiens
303 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 02/01/2006
PATENT APPLICATION: US/10/516,406   TIME: 14:40:57

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

304 <221> NAME/KEY: misc_feature
305 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E4m (see Figure 4)
308 <400> SEQUENCE: 19
309 tggctcactg caacctccgc ctcccaggtt caagcaattc tcctgcctca gtctcccgag   60
311 tagctgggac taccggcgag tgctaccatg cctgcgtaat tttttgtact   110
314 <210> SEQ ID NO: 20
315 <211> LENGTH: 110
316 <212> TYPE: DNA
317 <213> ORGANISM: Homo sapiens
319 <220> FEATURE:
320 <221> NAME/KEY: misc_feature
321 <223> OTHER INFORMATION: Alu sequence cloned from BD43-E79m (see Figure 4)
324 <400> SEQUENCE: 20
325 cagctcactg caacctccgt ttcccaggtg caaccgattc tcctgcctca gacctctgaa   60
327 gcggctggga ctacaggtgc ctgccacctc acccggctaa tttttgtatt   110
330 <210> SEQ ID NO: 21
331 <211> LENGTH: 108
332 <212> TYPE: DNA
333 <213> ORGANISM: Homo sapiens
335 <220> FEATURE:
336 <221> NAME/KEY: misc_feature
337 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E6m (see Figure 4)
340 <400> SEQUENCE: 21
341 cagctcacca caacctccgc ctcctgggtt ccagcgattc tcctgcctcg gcctcccaag   60
343 tagctgggat tacaggcacg caccaataca cctggctaat tttgtatt   108
346 <210> SEQ ID NO: 22
347 <211> LENGTH: 108
348 <212> TYPE: DNA
349 <213> ORGANISM: Homo sapiens
351 <220> FEATURE:
352 <221> NAME/KEY: misc_feature
353 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl57-E6m (see Figure 4)
356 <400> SEQUENCE: 22
357 cagctcacca caacctccgc ctcctgggtt ccagcgattc tcctgcctcg gcctcccaag   60
359 tagctgggat tacaggcacg caccaataca cctggctaat tttgtatt   108
362 <210> SEQ ID NO: 23
363 <211> LENGTH: 110
364 <212> TYPE: DNA
365 <213> ORGANISM: Homo sapiens
367 <220> FEATURE:
368 <221> NAME/KEY: misc_feature
369 <223> OTHER INFORMATION: Alu sequence cloned from Ctrl50-RevE169m (see Figure 4)
372 <400> SEQUENCE: 23
373 cagctctcca caacctccgc catcgtgggt tccagcagat tctcctgcct cggcctccca   60
375 agtagctggg aatacaggca cgctccaata cacctggcta attatgtatt   110
378 <210> SEQ ID NO: 24
379 <211> LENGTH: 109
380 <212> TYPE: DNA
381 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 02/01/2006
PATENT APPLICATION: US/10/516,406   TIME: 14:40:58

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:41; N Pos. 575
Seq#:45; N Pos. 11,16
Seq#:49; N Pos. 15
Seq#:52; N Pos. 469,490,508,538,550,552,557
Seq#:60; N Pos. 368
Seq#:227; N Pos. 49

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:2,3,4,5

VERIFICATION SUMMARY   DATE: 02/01/2006
PATENT APPLICATION: **US/10/516,406**   TIME: 14:40:58

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02012006\J516406.raw**

```
L:885 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:540
L:1001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:1123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:420
M:341 Repeated in SeqNo=52
L:1529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:360
L:5543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:227 after pos.:0
```